

JC960 U.S. PTO
09/755437
01/05/01

Atty. Docket No. OSU1159-141 Serial No. Not Yet Rec'd

Richard L. McCreery
Applicant

January 5, 2001

Filing Date

Group Art Unit

Examiner's name

Examiner's Initial	Document Number	Date	Name	Class/Sub-class
	6,103,868	08/15/2000	Heath et al.	528/482
	6,128,214	10/03/2000	Kuekes et al.	365/151

Examiner's Initial	Document Number	Date	Country/Name	Translation? yes/no
	NONE			

1. C.A. Mirkin, M.A. Ratner, "*Molecular Electronics*", Annu. Rev. Phys. Chem., 1992, **43**, 719 - 754.
2. M.A. Reed, J.M. Tour, "*Computing with Molecules*", Scientific American, 2000, 86-93
3. L.A. Bumm, J.J. Arnold, M.T. Cygan, T.D. Dunbar, T.P. Burgin, L. Jones, D.L. Allara, J.M. Tour, P.S. Weiss, "*Are single Molecular Wires Conducting?*", Science, 1996, **271**,

4. C. Zhou, M.R. Deshpande, M.A. Reed, L. Jones, J.M. Tour, "*Nanoscale Metal/Self-Assembled Monolayer/Metal Heterostructures*", Appl. Phys. Lett., 1997, **71**(5), 661.
5. M.A. Reed, C. Zhou, C.J. Muller, T.P. Burgin, J.M. Tour, "*Conductance of a Molecular Junction*", Science, 1997, **278**, 252.
6. L.A. Bumm, J.J. Arnold, T.D. Dunbar, D.L. Allara, P.S. Weiss, "*Electron Transfer through Organic Molecules*", J. Phys. Chem. B., 1999, **103**, 8122-8127.
7. C.P. Collier, E.W. Wong, M. Belohradsky, F.M. Raymo, J.F. Stoddart, P.J. Kuekes, R.S. Williams, J.R. Heath, "*Electronically Configurable Molecular-Based Logic Gates*", Science, 1999, **285**, 391 -393
8. C.P. Collier, G. Mattersteig, E.W. Wong, Y. Luo, K. Beverly, J. Sampaio, F.M. Raymo, J.F. Stoddart, J.R. Heath, "*A [2]Catenane-Based Solid State Electronically Reconfigurable Switch*", Science, 2000, **289**, 1172 - 1175.

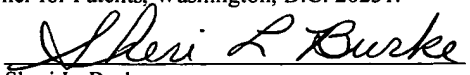
9. J. Pinson, J. Saveant, R. Hitmi, "Process for Modifying the Surface of Carbon-Containing Materials by Electro-Chemical Reduction of Diazonium Salts, Applicable in Particular to Carbon Fibers For Composite Materials: Carbon-Containing Materials So Modified", French Patent, PCT/FR92/0087, 1992.
10. P. Allongue, M. Delamar, B. Desbat, O. Fagebaume, R. Hitmi, J. Pinson, J.M. Saveant, "Covalent Modification of Carbon Surfaces by Aryl Radicals Generated from the Electrochemical Reduction of Diazonium Salts", J. Am. Chem. Soc., 1997, **119**, 201-207
11. Y-C. Liu, R.L. McCreery, "Reactions of Organic Monolayers on Carbon Surfaces Observed with Unenhanced Raman Spectroscopy", J. Am. Chem. Soc., 1995, **117**, 11254.
12. S. Ranganathan, R. McCreery, S.M. Majji, M. Madou, "Photoresist-Derived Carbon for Microelectrochemical Applications", J. Electrochem. Soc., **2000**, *147*, 277 – 282.
13. S.N. Yaliraki, M. Kemp, M.A. Ratner, "Conductance of Molecular Wires: Influence of Molecule-Electrode Binding", J. Am. Chem. Soc., **1999**, *121*, 3428-3434.
14. T. Rueckes, K. Kim, E. Joselevich, G.Y. Tseng, C. Cheung, C.M. Lieber, "Carbon Nanotube-based Nonvolatile Random Access Memory of Molecular Computing", Science, 2000, **289**, 94-97.
15. J. Chen, M.A. Reed, A.M. Rawlett, J.M. Tour, "Large On-Off Ratios and Negative Differential Resistance in a Molecular Electronic Device", Science, 1999, **286**, 1551-1552.
16. C. Kergueris, J.P. Bourgoin, S. Palacin, D. Esteve, C. Urbina, M. Magoga, C. Joachim, "Electron Transport Through a Metal-Molecule-Metal Junction", Phys. Review B, 1999, **59(19)**, 12505.
17. W. Tian, S. Datta, S. Hong, R. Reifengerger, J.I. Henderson, C.P. Kubiak, "Conductance Spectra of Molecular Wires", J. Chem. Physics, 1998, **109(7)**, 2874-2882.
18. D.F. Padowitz, R.J. Hamers, "Voltage-Dependent STM of Covalently Bound Molecules on Si(100)", J. Phys. Chem., 1998, **102**, 8541-8545.
19. S. Datta, W. Tian, S. Hong, R. Reifengerger, J.I. Henderson, C.P. Kubiak, "Current-Voltage Characteristics of Self-Assembled Monolayers by Scanning Tunneling Microscopy", Phys. Rev. Let., 1997, **79(13)**, 2530-2533.

20. C.H. de Villeneuve, J. Pinson, M.C. Bernard, P. Allongue, "Electrochemical Formation of Close-packed Phenyl layers on Si (111)", J. Phys. Chem. B., 1997, **101**, 2415-2420.
21. Y-C Liu, R.L. McCreery, "Raman Spectroscopic Determination of the Structure and Orientation of Organic Monolayers Chemisorbed on Carbon Electrode Surfaces", Anal. Chem., 1997, **69**, 2091.

Examiner	Date Considered
----------	-----------------

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.10	
"Express Mail" Number: EL622263362US	Date of Deposit: January 5, 2001
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as U.S. Express Mail in an envelope addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, D.C. 20231.	
 Sheri L. Burke	